FIG. 1

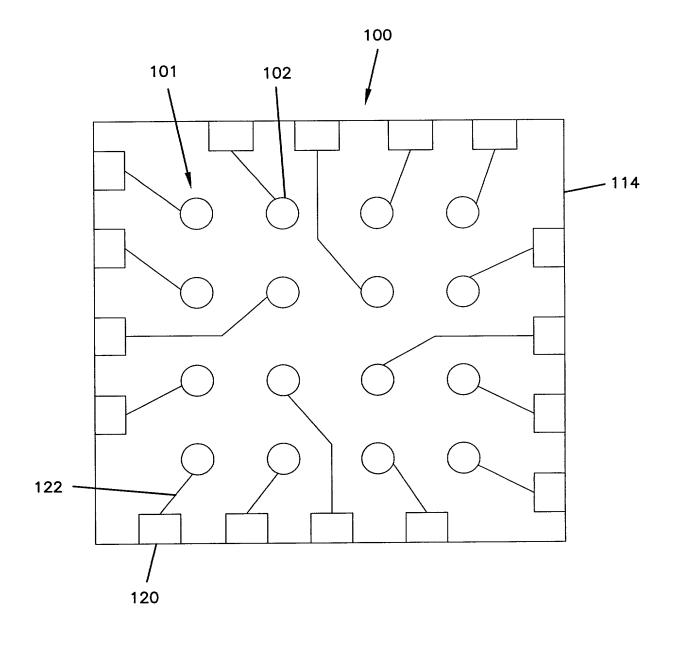


FIG. 2

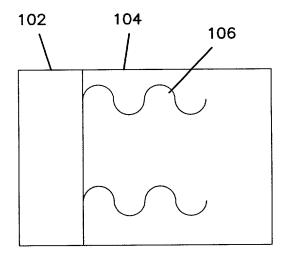


FIG. 3

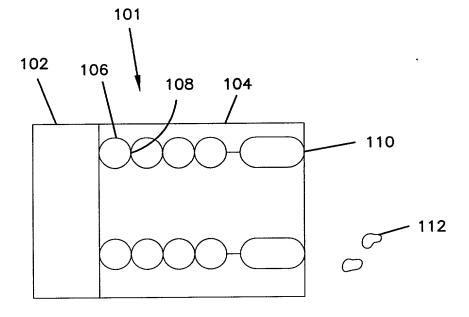
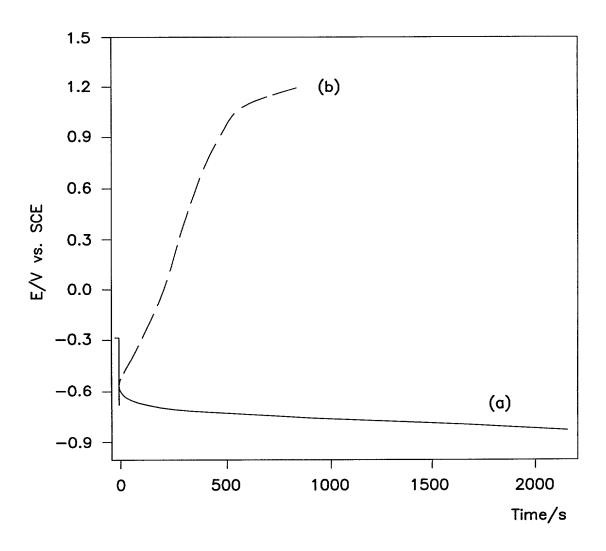


FIG. 4





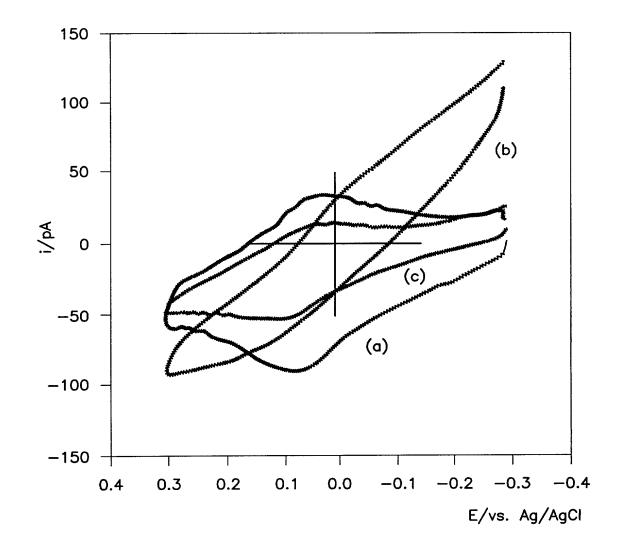


FIG. 6

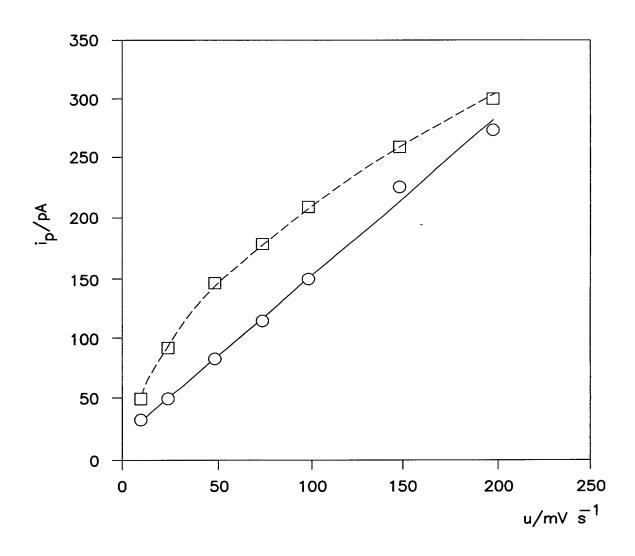


FIG. 7

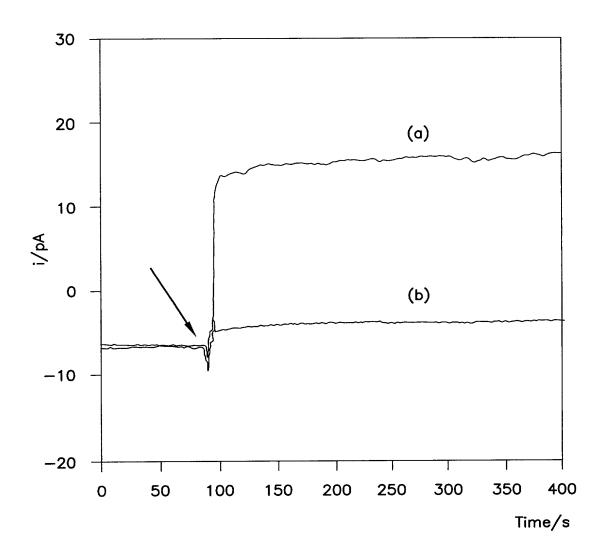
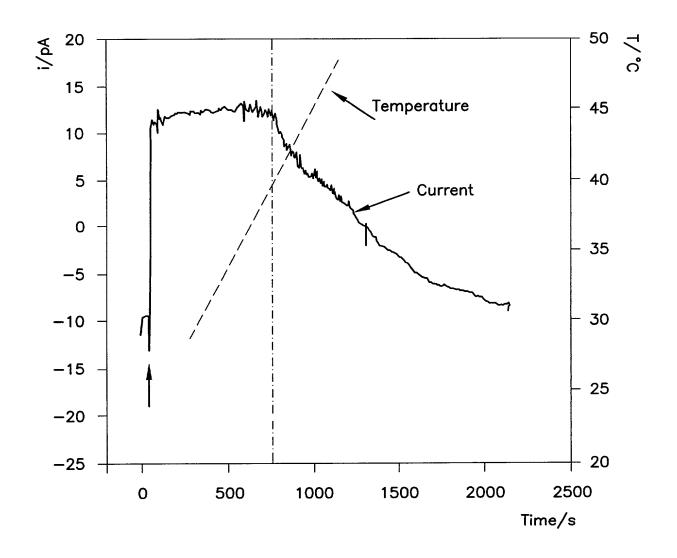
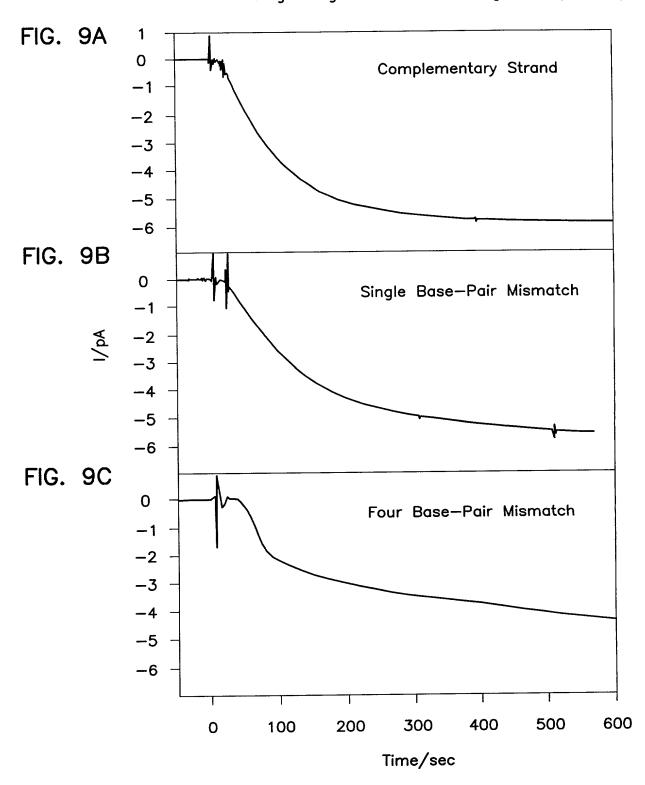


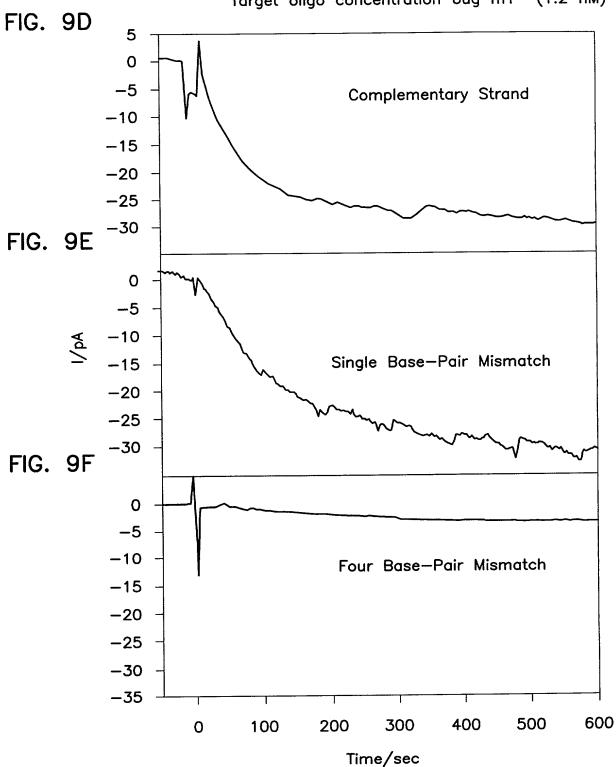
FIG. 8



Hybridization at 25 °C with 1M NaC1, Target oligo concentration 6 μ g m1 $^{-1}$ (1.2 nM)



Hybridization at 45 $^{\circ}$ C with 1M NaC1, Target oligo concentration 6ug m1 $^{-1}$ (1.2 nM)



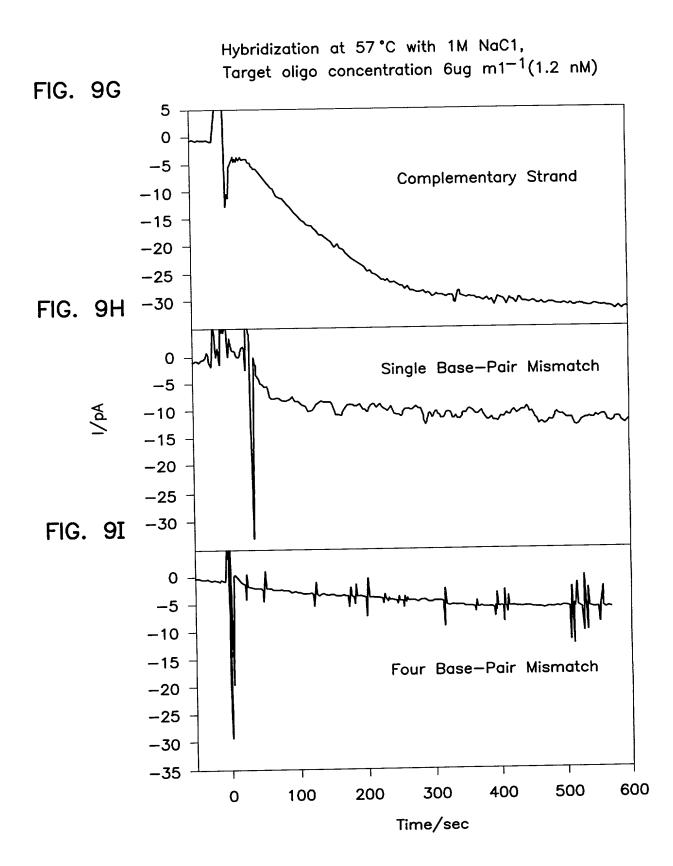


FIG. 1

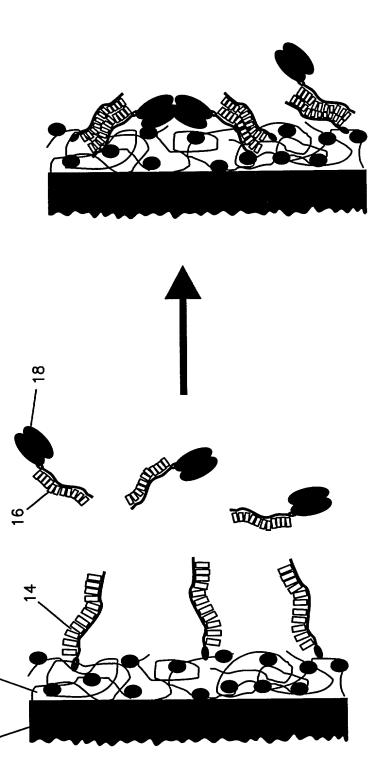


FIG. 11

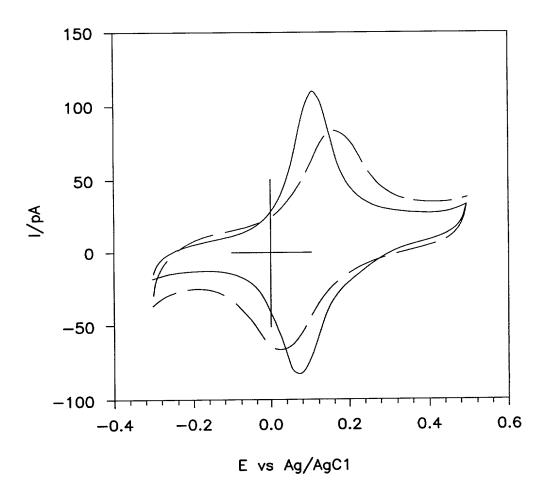
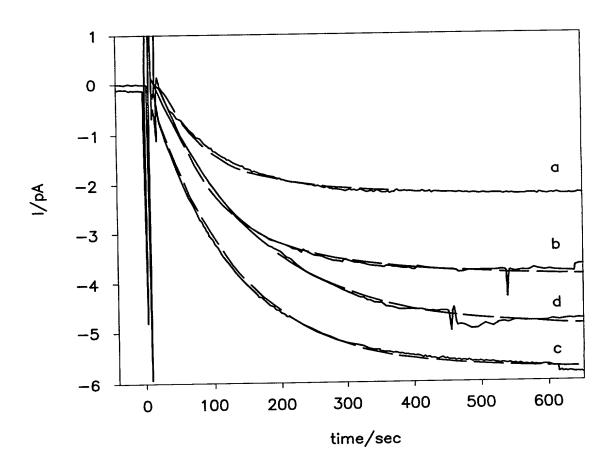


FIG. 12



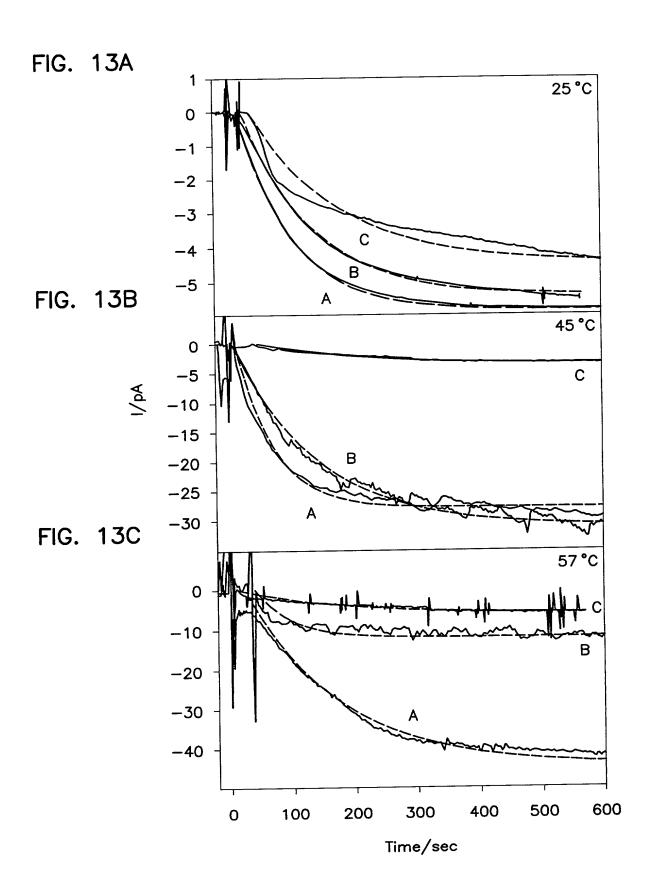
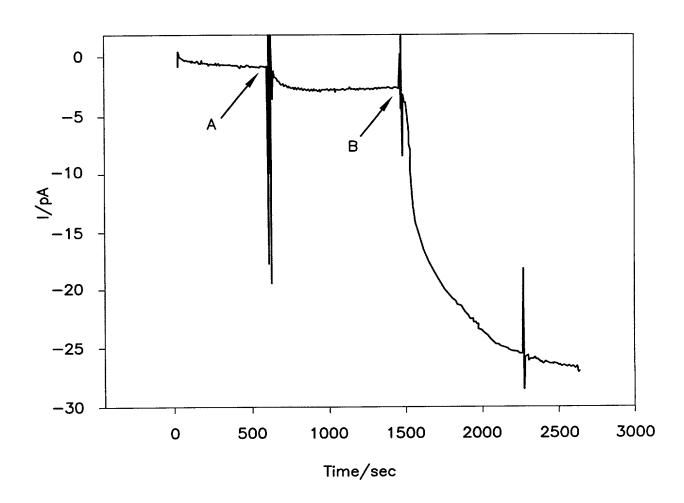


FIG. 14

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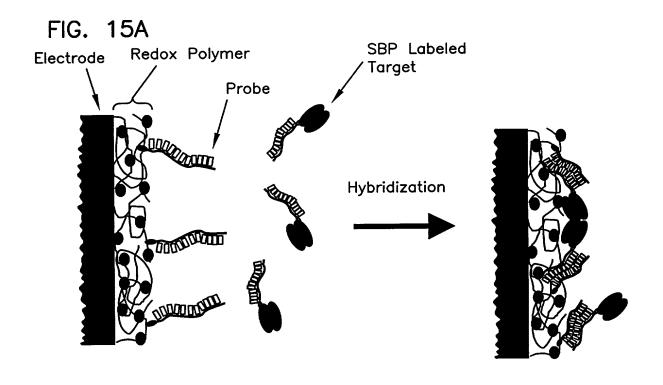
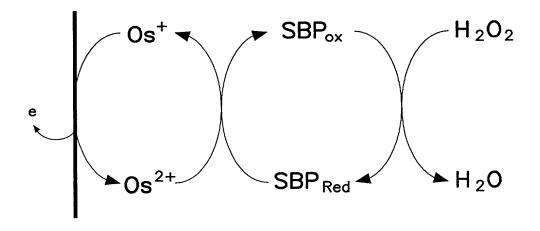


FIG. 15B



Electrode Redox Polymer (target)

(target)

(target)

Catalyst

Catalyst

Second probe oligonucleotide oligonucleotide

FIG. 15C